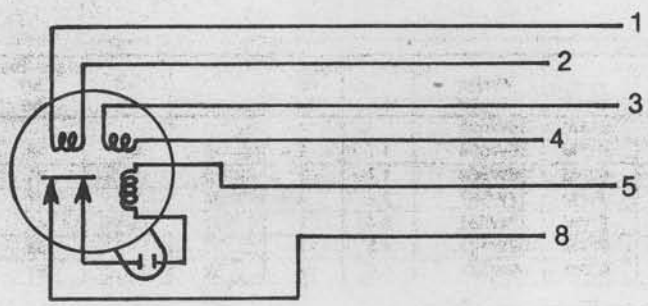
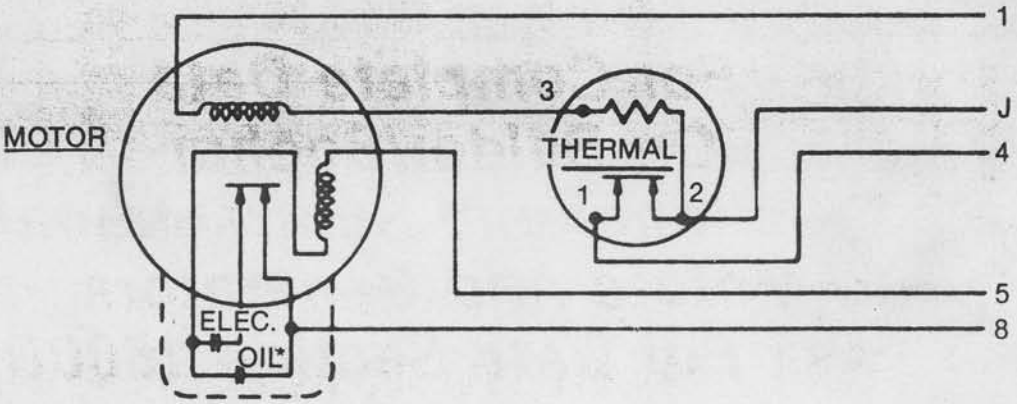
CONNECTION DIAGRAMS

DIAGRAM CD0001
Single Phase — Dual Voltage — Reversible



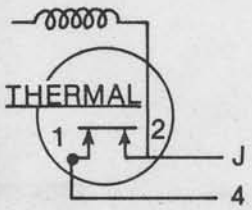
	LINE A	LINE B		LINE A	LINE B	TOGETHER
LOW STD.	1, 3 & 8	2, 4 & 5	HI STD.	1	4 & 5	2, 3 & 8
LOW OPP.	1, 3 & 5	2, 4 & 8	HI OPP.	1	4 & 8	2, 3 & 5

DIAGRAM CD0002
Type L & LC — Reversible
Single Volt With Thermal



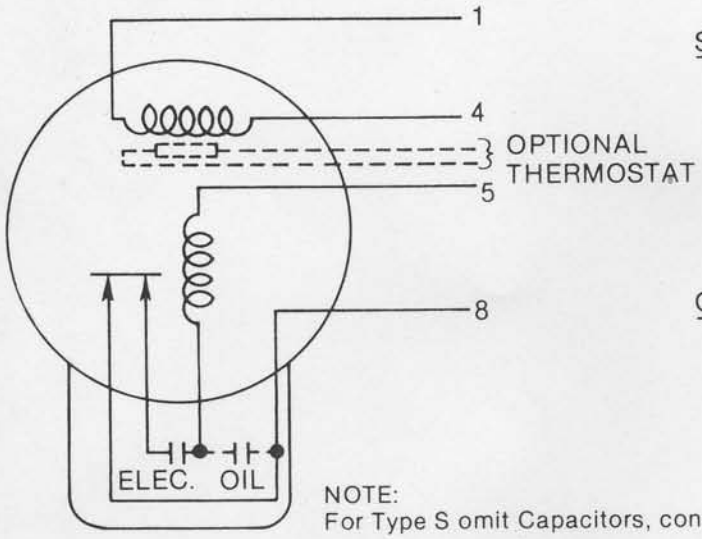
*OIL WHEN REQUIRED

INTERNAL CONN. FOR TWO TERMINAL THERMAL #--HOO--



	LINE A	LINE B	TOGETHER		LINE A	LINE B	TOGETHER
STD. ROT.	1 & 8	4	J & 5	OPP. ROT.	1 & 5	4	J & 8

DIAGRAM CD0017
Single Voltage — Reversible
With Optional Thermostat



STANDARD ROTATION

CONNECT 1 & 8 TO ONE LINE
CONNECT 4 & 5 TO OTHER LINE

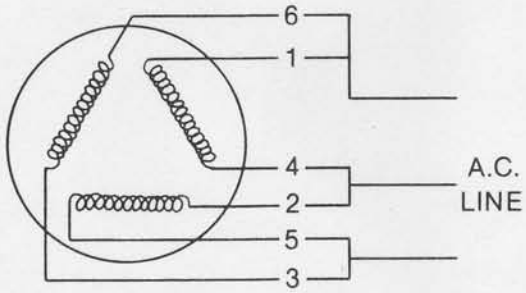
OPPOSITE STANDARD ROTATION

CONNECT 1 & 5 TO ONE LINE
CONNECT 4 & 8 TO OTHER LINE

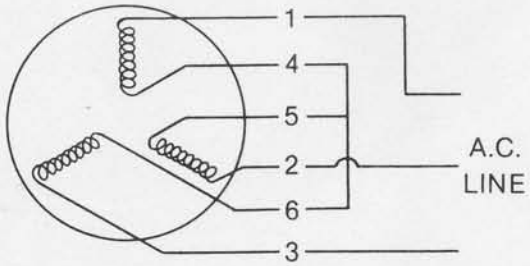
NOTE:
For Type S omit Capacitors, connect #8 from Start Winding to Switch.

DIAGRAM CD0022
3 Phase — 6 Lead
WYE-Delta Connections

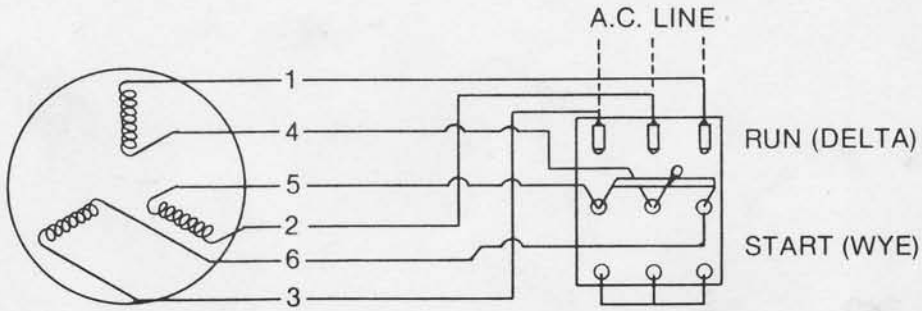
To reverse rotation, interchange two line leads.



DELTA (Δ)
CONNECTION
(LOW VOLT.)

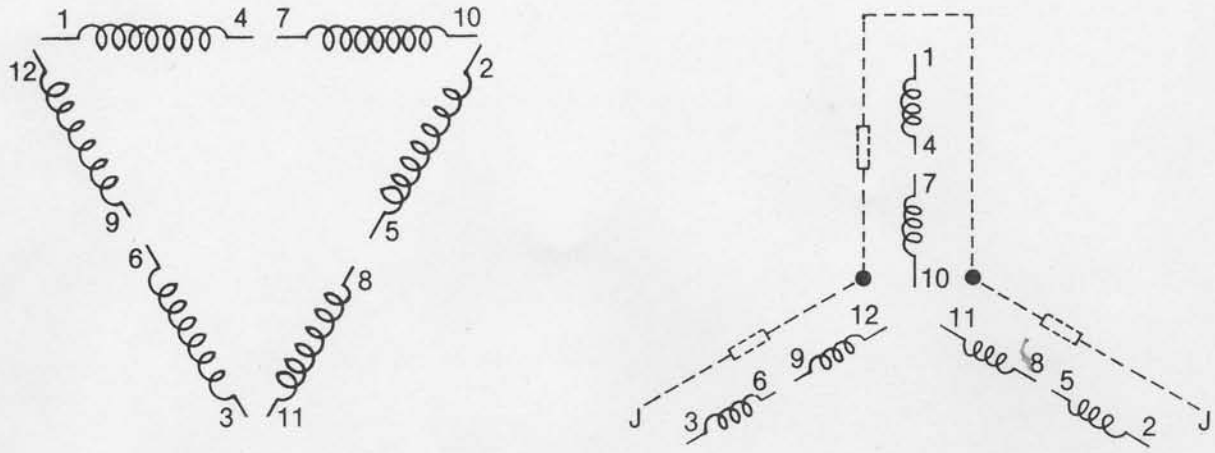


WYE ( )
CONNECTION
(HIGH VOLT.)



NOTE:
1. Throw switch down to start — hold until motor is up to speed, quickly throw to run.
2. If motor is marked with one voltage and is not to be used with WYE-Delta Motor Starter, connect motor Delta.

DIAGRAM CD0044
3 Phase — 12 Leads
Triple Voltage — Optional T'Stats



To reverse rotation, interchange any two line leads.

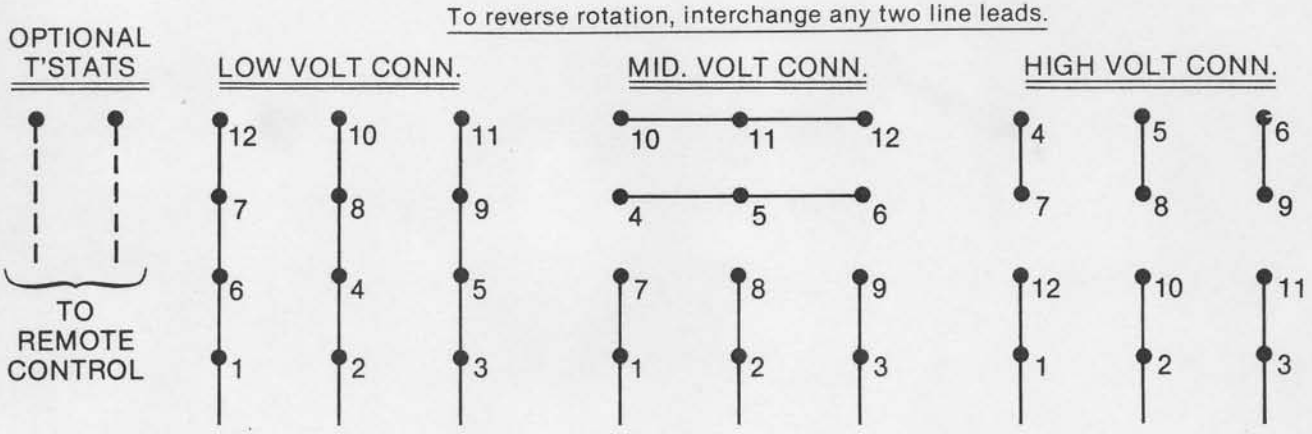
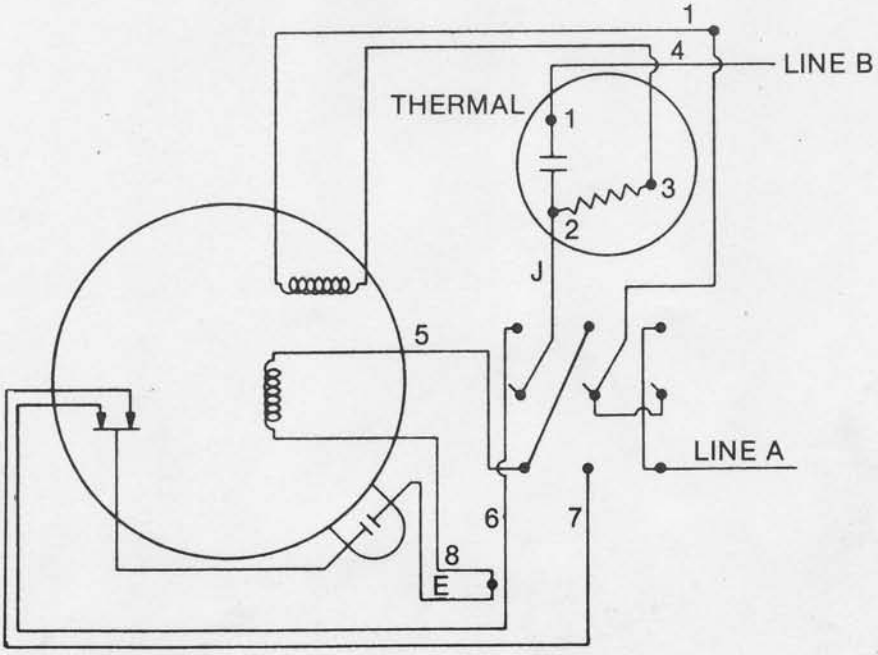


DIAGRAM CD0045
Instant Reversing — 8 Lead — Single Voltage



For standard rotation connect 8 & E together.
To reverse, interchange leads 5 & 8 and interchange leads 6 & 7.

DIAGRAM CD0049
Type L — Reversible with DPDT Switch
Potential Type Starting Relay

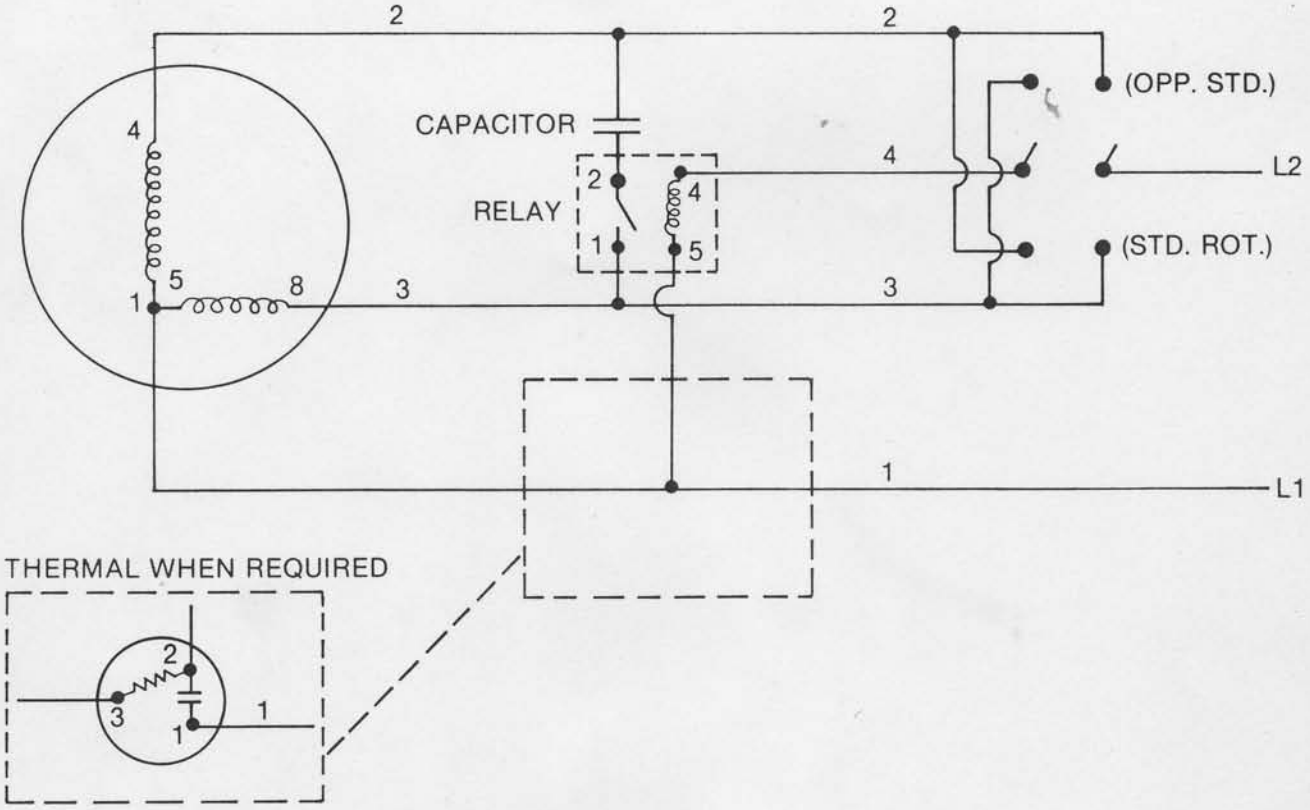


DIAGRAM CD0051
Type L — 3 Lead
Instant Reversing Switch and Relay

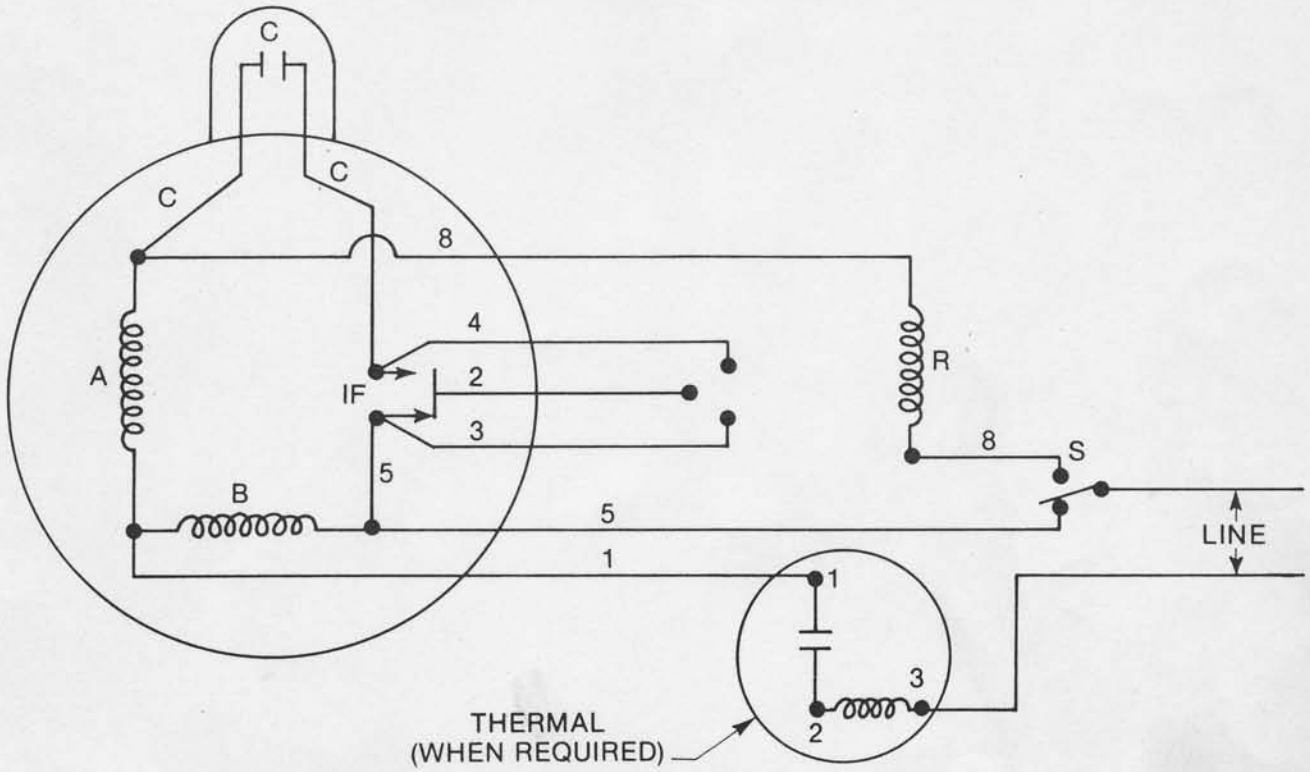
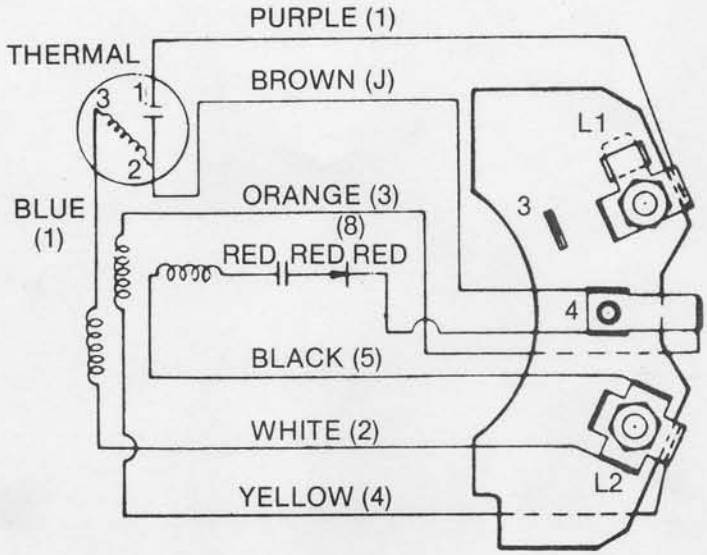


DIAGRAM CD0052
Type L, C & S — Dual Volts — Reversible
With Thermal — Model 34 Quick Connect Plate

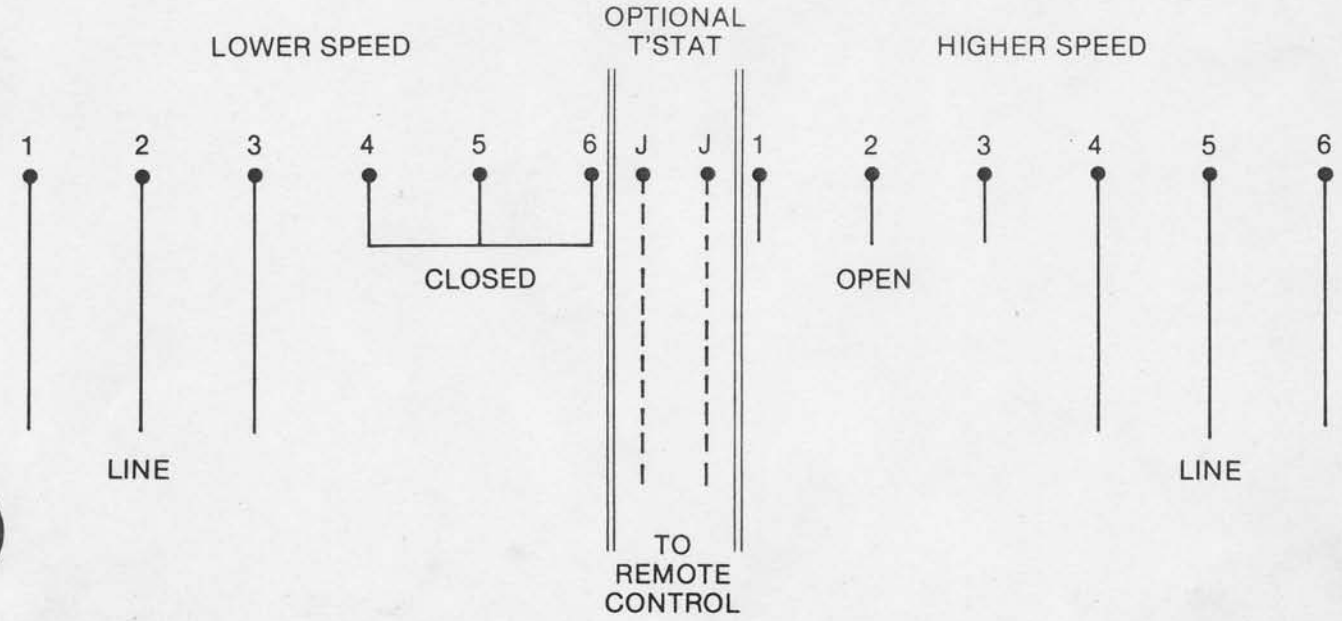
VIEW OF FRONT OF PLATE



To reverse rotation, interchange black (5) and red (8) leads.
Low Voltage: Connect as shown.
High Voltage: Move Brown (J) lead to terminal 3.
Move white (2) lead to terminal 4.

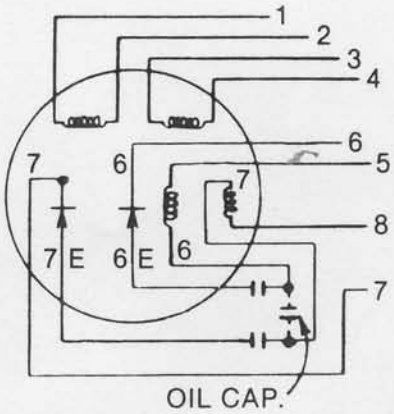
NOTE:
1. Omit Capacitor on Type S motors.
2. Omit Switch on Type C motors.

DIAGRAM CD0057
3 Phase 6 Lead Motor
Single Voltage — Two Speed — Constant H.P.



Rotation is reversed by reversing any two line wires.

DIAGRAM CD0076
Dual Voltage — Reversible
Type L or LC

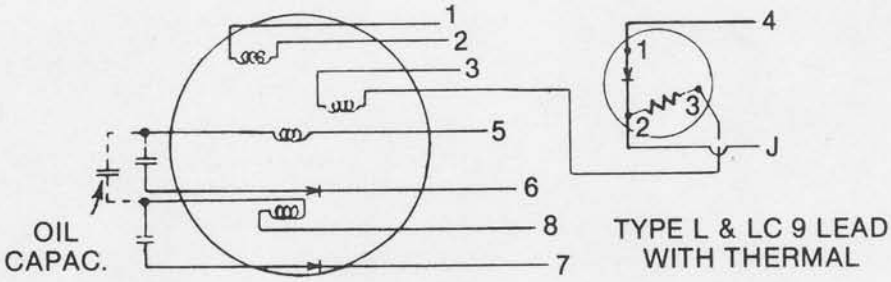


CONNECTIONS FOR TYPE L—LC

VOLT - ROT.	LINE A	LINE B
LOW STD.	1, 3, 6 & 8	2, 4, 5 & 7
LOW OPP.	1, 3, 5 & 7	2, 4, 6 & 8

VOLT—ROT.	LINE A	LINE B	TOGETHER	TOGETHER
HI STD.	1 & 8	4 & 5	2 & 3	6 & 7
HI OPP.	1 & 5	4 & 8	2 & 3	6 & 7

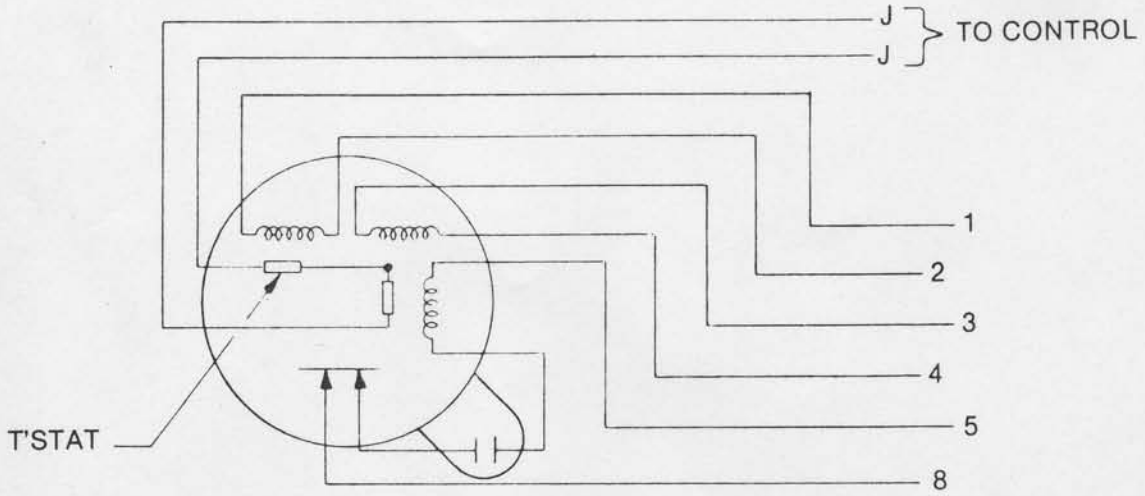
DIAGRAM CD0077
Type L & LC — Dual Voltage — 9 Lead
Reversible — With Thermal



ROTATION	LOW VOLTAGE			HIGH VOLTAGE				
	LINE A	LINE B	TOGETHER	LINE A	LINE B	TOGETHER	TOGETHER	TOGETHER
STD.	1, 3, 6 & 8	4	2, 5, 7 & J	1 & 8	4	2 & 3	5 & J	6 & 7
OPP.	1, 3, 5 & 7	4	2, 6, 8 & J	1 & 5	4	2 & 3	8 & J	6 & 7

DIAGRAM CD0081

Single Phase — Dual Voltage
Reversible — With Thermostat

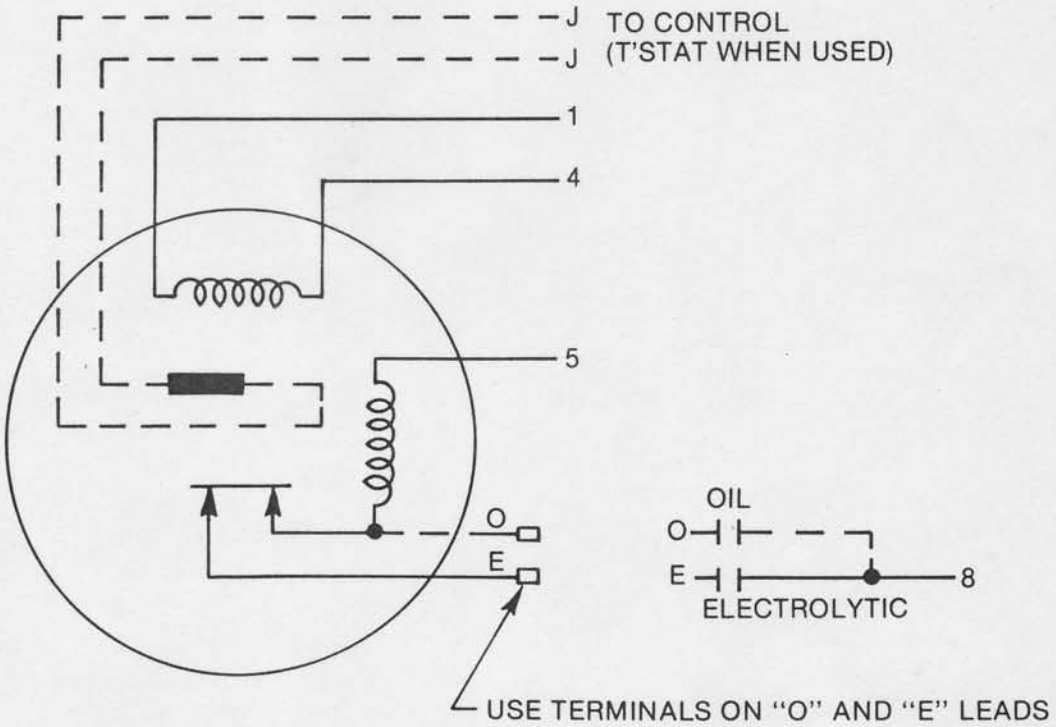


	LINE A	LINE B		LINE A	LINE B	TOGETHER
LOW STD.	1, 3 & 8	2, 4 & 5	HI STD.	1	4 & 5	2, 3 & 8
LOW OPP.	1, 3 & 5	2, 4 & 8	HI OPP.	1	4 & 8	2, 3 & 5

NOTE: When 1 T'Stat is used, tie in "A" phase only.

DIAGRAM CD0086

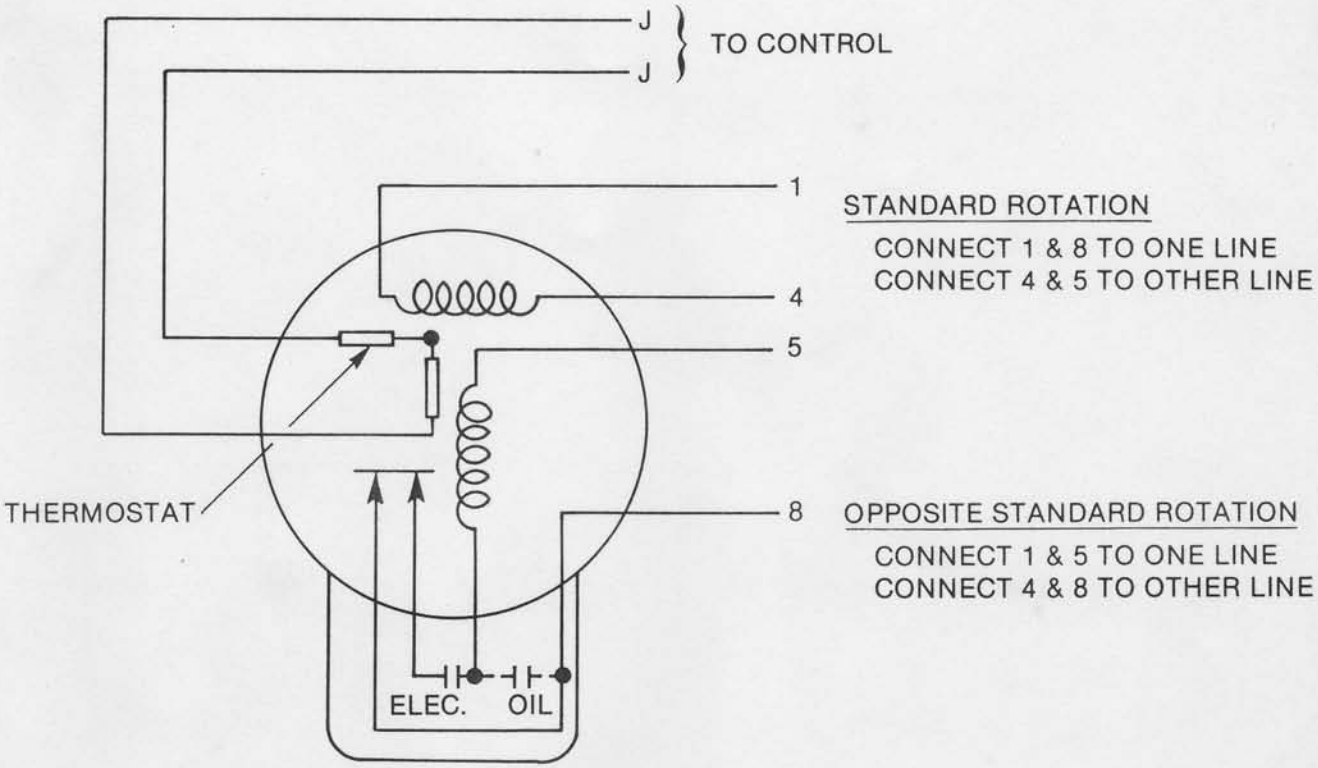
Type L & LC — Single Voltage — Reversible
With Thermostat — Separate Capacitors



ROT.	L_1	L_2
STD.	4 - 5	1 - 8
OPP. STD.	4 - 8	1 - 5

NOTE: If leads are on pulley end, rotation is reversed.

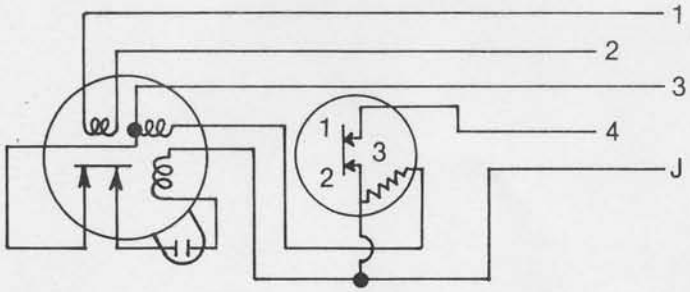
DIAGRAM CD0092
Single Voltage — Reversible
With Thermostat



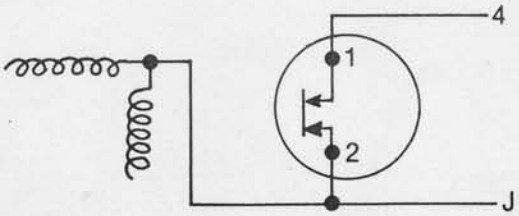
NOTE: When 1 T'Stat is used, tie in "A" phase only.

NOTE: For Type S omit Capacitor, connect #8 from Start Winding to Switch.

DIAGRAM CD0094
Single Phase — With Thermal
Dual Voltage — Fixed Rotation



	LINE A	LINE B	TOGETHER		LINE A	LINE B	TOGETHER	TAPE
LOW VOLT	1 & 3	4	2 & J	HI VOLT	1	4	2 & 3	J

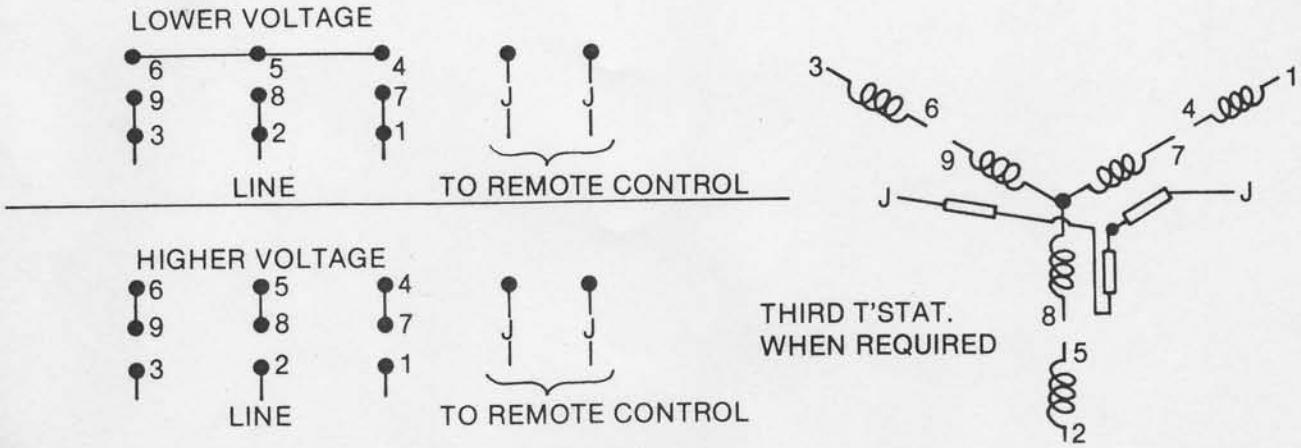


2 TERMINAL THERMAL
#--HOO--

DIAGRAM CD0145

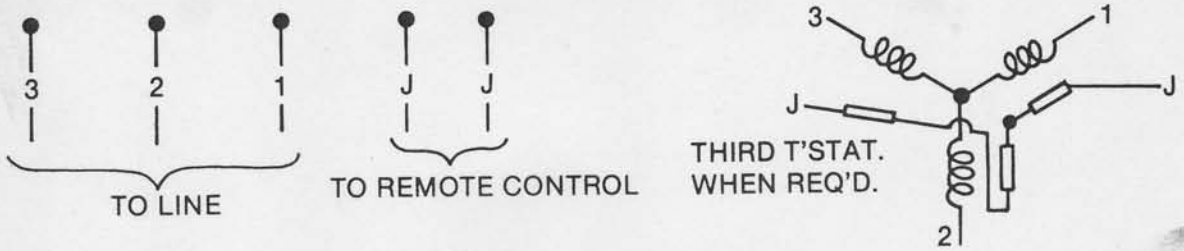
3 Phase — Single Voltage or Dual Voltage
With Thermals for Remote Control

CONNECTIONS FOR 3 PHASE DUAL VOLTAGE MOTOR - WITH TERMINALS FOR REMOTE CONTROL



Rotation is reversed by interchanging any two line wires.

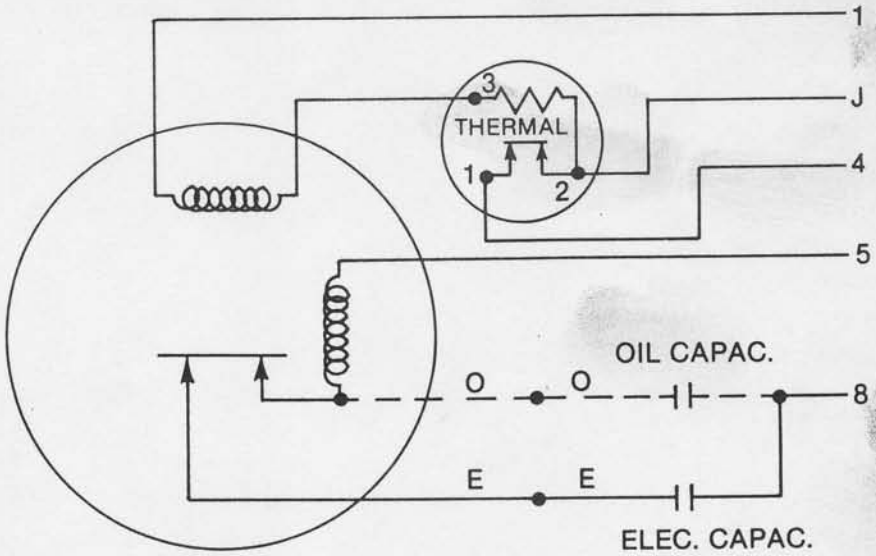
CONNECTIONS FOR 3 PHASE SINGLE VOLTAGE MOTOR - WITH THERMALS FOR REMOTE CONTROL



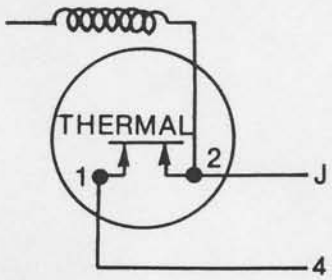
Rotation is reversed by interchanging any two line wires.

DIAGRAM CD0152

Type L & LC — Reversible
With Thermal — Single Voltage — Separate Capacitors



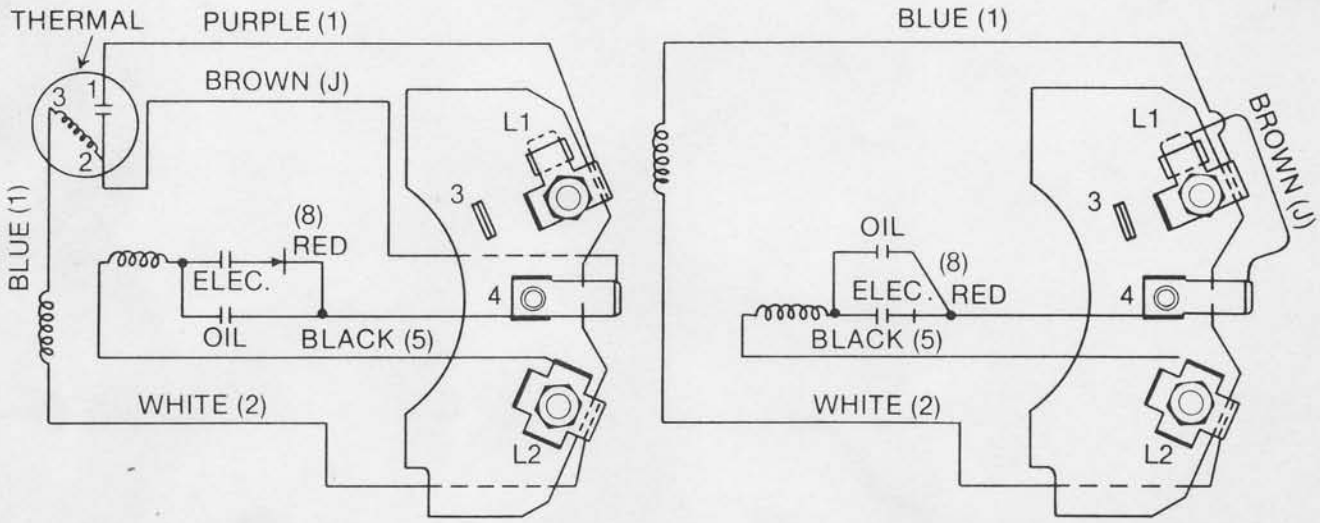
INTERNAL CONN. FOR TWO TERMINAL THERMAL #--HOO--



	LINE A	LINE B	TOGETHER		LINE A	LINE B	TOGETHER
STD. ROT.	1 & 8	4	J & 5	OPP. STD. ROT.	1 & 5	4	J & 8

DIAGRAM CD0225
Type LC — Single Volts — Reversible
With and Without Thermal — Model 34 Quick Connect Plate

VIEW OF FRONT OF PLATE



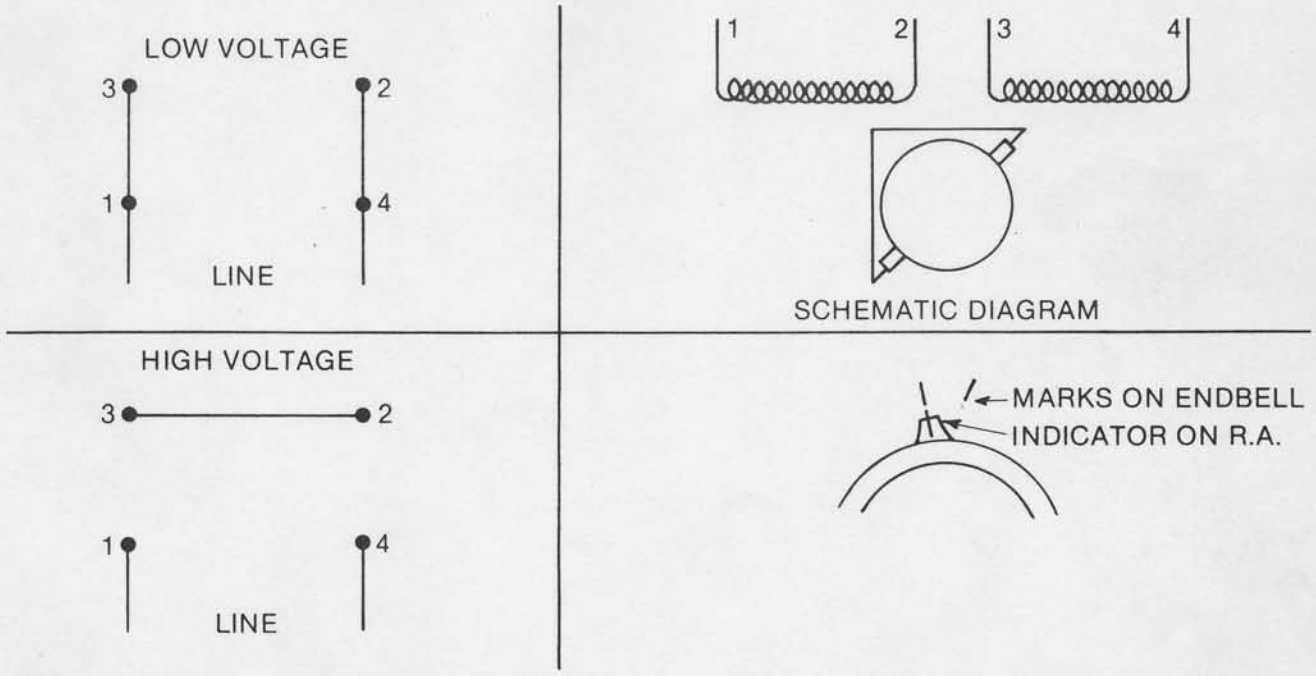
WITH THERMAL

WITHOUT THERMAL

NOTE:
1. Omit Capacitor on Type S motors.
2. Omit ROT. Switch on Type C motors.

To reverse rotation, interchange black (5) and red (8) leads.

DIAGRAM CD0277
Single Phase Repulsion Start — Induction Motor



Rotation is reversed by shifting brushes.
Loosen screws in bearing housing one turn - shift R.A. to other mark on endbell. Tighten screws.

CHANGING MOTOR ROTATION OF THE 62-142 MOTOR

IMPORTANT: The rotation of the motor used with your band saw must be in the counterclockwise direction when viewed from the shaft end of the motor. **NOTE:** Depending upon the manufacturing date of the 62-142 motor, it may be wired for clockwise rotation as shipped. To check the motor rotation proceed as follows:

1. Connect the motor to a power source and turn the motor switch on. Check to see the direction of rotation of the motor shaft when viewed from the shaft end. If the direction of rotation is clockwise the motor rotation must be reversed as follows:

2. Make sure the motor is disconnected from the power source and check the motor nameplate to identify the manufacture of the motor.

3. If your motor is manufactured by Emerson Electric Co., refer to Fig. 24. Loosen the two screws (C) and rotate motor junction box cover (D) out of the way. To reverse the rotation of the motor, interchange the black and red leads on terminals (A) and (B) Fig. 24. These leads have spade type terminal clips that are slipped off the terminals (A) and (B) and interchanged.

4. If your motor is manufactured by Marathon Electric, refer to Fig. 25. Loosen two screws (C) and remove the motor junction box cover (D). To reverse the rotation of the motor, interchange the black and blue leads on terminals (A) and (B) Fig. 25. These leads have spade type terminal clips that are slipped off the terminals (A) and (B) and interchanged.

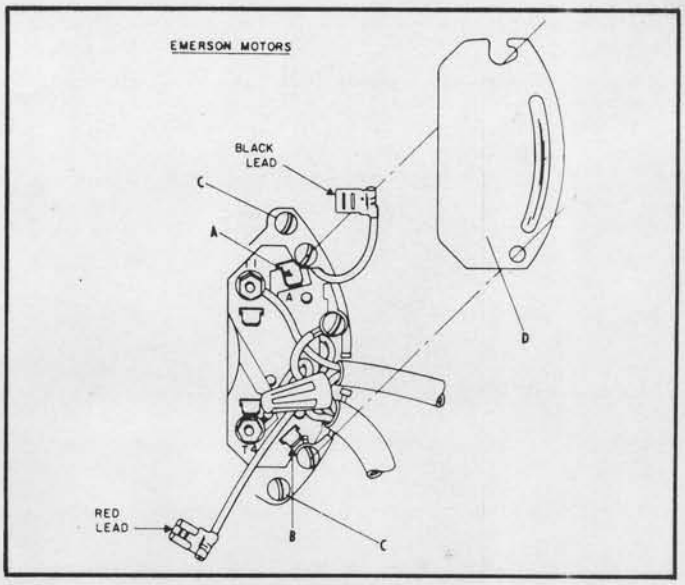


Fig. 24

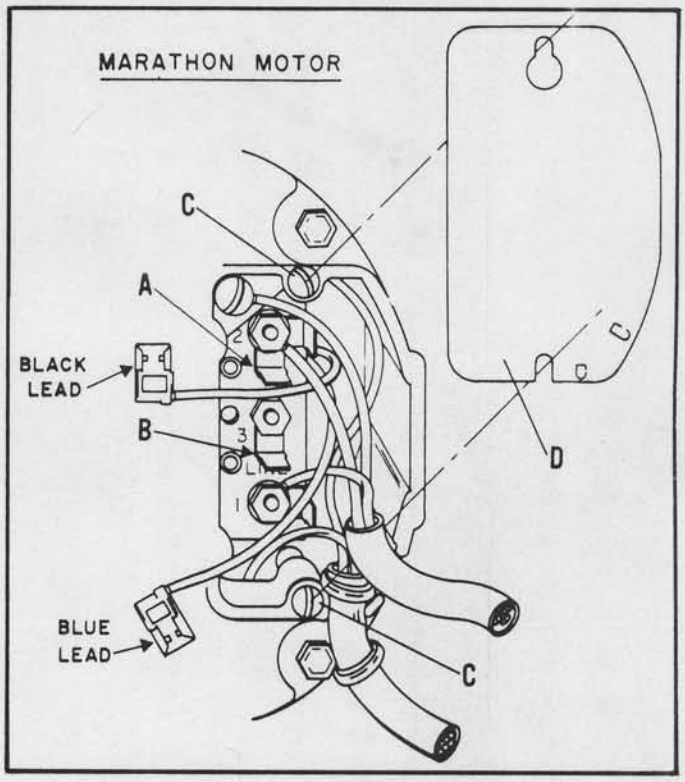


Fig. 25

TABLE INSERT

Place table insert (A) Fig. 27, in the hole provided in the table making sure the pin (B) in the table engages one of the indents in the table insert.

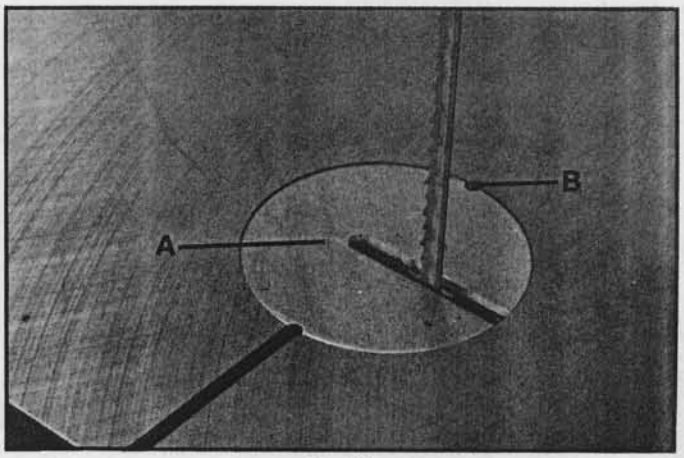
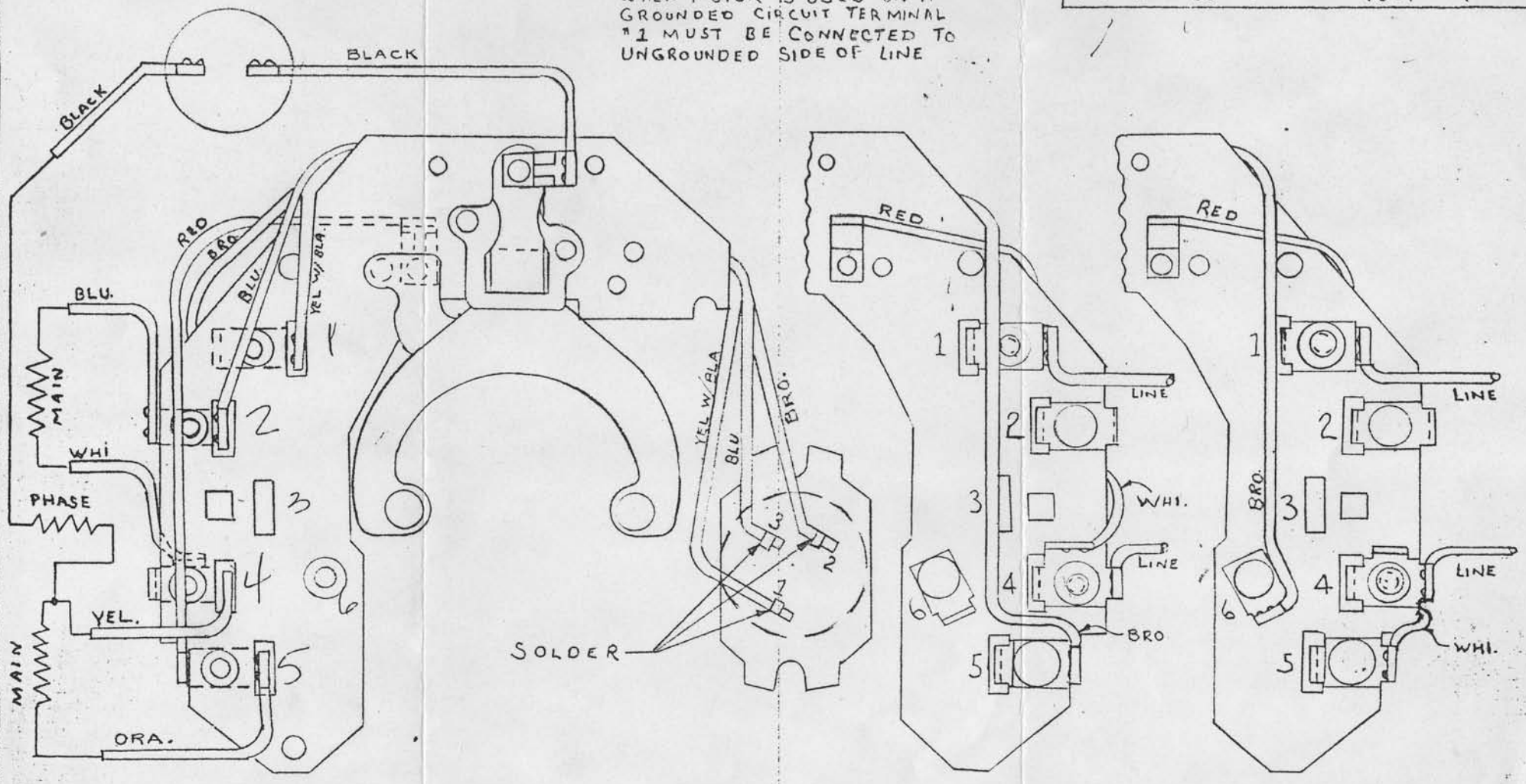


Fig. 27

DO NOT RAWING

11524201 - CONNECT LOW VOLT
11524202 - CONNECT HIGH VOLT

WHEN MOTOR IS USED ON A GROUNDED CIRCUIT TERMINAL #1 MUST BE CONNECTED TO UNGROUNDED SIDE OF LINE



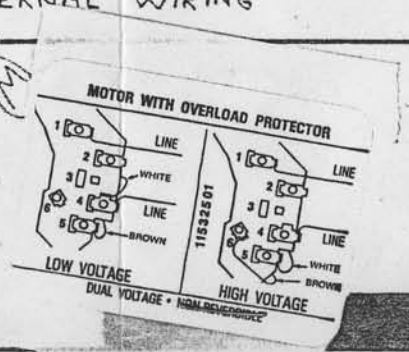
D/S-1

INTERNAL WIRING

LOW VOLTAGE CONN. HIGH VOLTAGE CONN.

EXTERNAL CONNECTIONS

CHANGES	
1.	0056-600-12406
3	REDRAWN-SUP. ERSEDES ISS. #2 9-10-64. E.A. 6-23-69 9999-999-19400
4	REMOVED CW ROTATION FROM DWG AND CHANGED CLASS & TITLE. 8-25-82 DML NK 9999-999-38586



115325

TITLE
0056 DIAG EXTERNAL CONN.
CS, D VOLT, NON REV, W/PROT

DRAWN 6-23-69 BY E.A.	CENTURY ELECTRIC CO. ST. LOUIS, MO.			
CHECKED BY	CONTROL CODE	DRG. NO.	SIZE	CLASSIFICATION
APPROVED BY	5	115242	C	1030